

**BASIS FOR THE AMENDMENT**

Claims 12 and 14 have been canceled. The limitations of Claim 12 have been included in Claim 1. The amendment of Claim 1 is further supported at pages 30-35 of the specification, for example the formulae (XIII) and (XIV) in which Y... does not contain a carbonyl group directly connected to a carbon atom of the terminal olefinic group and directly connected to the oxygen adjacent to the residue Y.

Claims 25-27 have been added.

New Claim 25 is supported at page 34, lines 8-22, of the specification as originally filed.

New Claims 26 and 27 are supported at page 35, lines 3-17 of the specification as originally filed.

No new matter is believed to have been added by entry of this amendment. Entry and favorable reconsideration are respectfully requested.

Upon entry of this amendment Claims 1-11, 13 and 14-27 will now be active in this application.

**REMARKS**

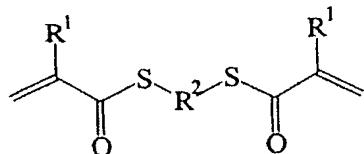
Applicants wish to thank Examiner Reddy for the helpful and courteous discussion with Applicants' Representative on November 30, 2007. It was noted that Smith et al do not disclose or suggest an asymmetrical compound as claimed in amended Claim 1. The compound V of Smith et al requires a carbonyl group on each side of the molecule and is therefore symmetrical.

Applicants respectfully request reconsideration of the application, as amended, in view of the following remarks.

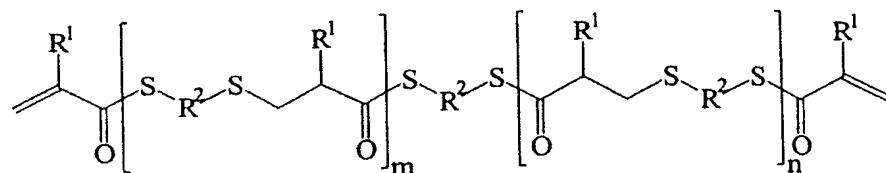
The rejection of Claims 1-12 and 14-24 under 35 U.S.C. § 103(a) over Smith et al in view of Maruyama et al and the rejection of Claim 13 under 35 U.S.C. § 103(a) over Smith et al in view of Maruyama et al and Momoda et al are respectfully traversed.

The present invention as set forth in **amended Claim 1** relates to a mixture for preparing a transparent plastic, comprising:

a) a prepolymer prepared from compounds of the formula (I) and (II) and from alkyl dithiols or from polythiols



(I)



(II)

wherein

each R<sup>1</sup> is hydrogen or a methyl radical,

each R<sup>2</sup> is a linear or branched, aliphatic or cycloaliphatic radical, or a substituted or unsubstituted aromatic or heteroaromatic radical, and

each of m and n, is a whole number greater than or equal to 0, wherein

m + n > 0,

and

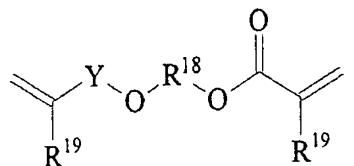
b) at least one monomer (A) capable of free-radical polymerization and having at least two methacrylate groups, and

c) aromatic vinyl compounds, and

d) a monomer selected from the group consisting of a monomer capable of free-radical polymerization and having at least two terminal olefinic groups whose reactivity differs,

e) at least one ethylenically unsaturated monomer (B) and mixtures thereof; and

f) a monomer capable of free-radical polymerization and having at least two terminal olefinic groups whose reactivity differs, of the formula



(XII),

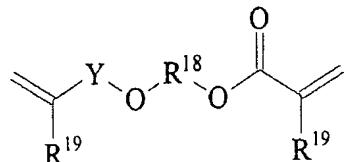
wherein

the radical R<sup>19</sup> at opposing ends of the molecule represented by the formula (XII) is the same or different and is selected from the group consisting of a hydrogen atom, a fluorine atom, and a methyl group,

**the radical R<sup>18</sup> is a connecting group which has from 1 to 1000 carbon atoms,  
the radical Y is a connecting group having from 0 to 1000 carbon atoms and does  
not contain a carbonyl group directly connected to a carbon atom of the terminal  
olefinic group and directly connected to the oxygen adjacent to the residue Y in formula  
(XII).**

New Claims 25-27 have been added to further define the compound of formula (XII).

Smith et al, Maruyama et al and Momoda et al, alone or in combination, fail to disclose or suggest a mixture as claimed in amended Claim 1 and in new Claims 25-27, especially a mixture having components a), b), c), d) and f) as claimed, in particular a), b), c), d) combined with f) a monomer capable of free-radical polymerization and having at least two terminal olefinic groups whose reactivity differs, of the formula



(XII),

wherein

the radical R<sup>19</sup> at opposing ends of the molecule represented by the formula (XII) is the same or different and is selected from the group consisting of a hydrogen atom, a fluorine atom, and a methyl group,

the radical R<sup>18</sup> is a connecting group which has from 1 to 1000 carbon atoms,

the radical Y is a connecting group having from 0 to 1000 carbon atoms and does not contain a carbonyl group directly connected to a carbon atom of the terminal olefinic group and directly connected to the oxygen adjacent to the residue Y in formula (XII).

Smith et al, Maruyama et al and Momoda et al, alone or in combination, fail to disclose or suggest a mixture as claimed having formulae (XIII) and (XIV). See new Claims 25-27.

The formula V at col. 8 of Smith et al is **symmetric** in that it contains carboxyl groups connected to the carbon atom of the terminal double bonds. However, the compounds of formula (XII) are **asymmetric**.

Maruyama et al and Momoda et al do not cure the defects of Smith et al.

Therefore, rejection of Claims 1-12 and 14-24 under 35 U.S.C. § 103(a) over Smith et al in view of Maruyama et al and the rejection of Claim 13 under 35 U.S.C. § 103(a) over Smith et al in view of Maruyama et al and Momoda et al are believed to be unsustainable as the present invention is neither anticipated nor obvious and withdrawal of these rejections is respectfully requested.

The objection to Claims 3-6 and 14-15 is obviated by the amendment of the claims.

The rejection of Claim 23 under 35 U.S.C. § 112, 2<sup>nd</sup> paragraph, is obviated by the amendment of the claim.

The rejection of Claim 23 under 35 U.S.C. § 101, is obviated by the amendment of the claim.

Regarding the provisional double patenting rejections, the MPEP instructs the Examiner to withdraw the provisional rejection if it is the only issue remaining in one case and convert the provisional rejection in the other application to a double patenting rejection. MPEP 822.01. Thus, the provisional double-patenting rejections should be withdrawn.

This application presents allowable subject matter, and the Examiner is kindly requested to pass it to issue. Should the Examiner have any questions regarding the claims or otherwise wish to discuss this case, he is kindly invited to contact Applicants' below-signed representative, who would be happy to provide any assistance deemed necessary in speeding this application to allowance.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.  
Norman F. Oblon

  
\_\_\_\_\_  
Kirsten A. Grueneberg, Ph.D.

Registration No.: 47,297

Customer Number  
**22850**

Tel: (703) 413-3000  
Fax: (703) 413 -2220  
NFO:KAG:  
(OSMMN 08/07)